



# STIC Search Report

## Biotech-Chem Library

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To: Sarvamangala Devi  
Location: REM 3C18  
Art Unit: 1645  
Monday, June 07, 2004

From: Beverly Shears  
Location: Remsen Bldg.  
RM 1A54  
Phone: 571-272-2528

Case Serial Number: 10/643314  
Shears, Beverly

beverly.shears@uspto.gov

From: Devi, Sarvamangala  
Sent: Tuesday, June 01, 2004 4:18 PM  
To: Shears, Beverly  
Subject: 10/643,314

Beverly:

Would you please perform a text search and an inventors' name search in application SN 10/643,314?

Inventors: Atumugham RG, Fortuna-Nevin M, Apicella MA and Gibson BW.

Claim 19. An antigenic conjugate comprising a carrier protein covalently bonded (bound or conjugated) to the conserved portion of the lipopolysaccharide (LPS or LOS or endotoxin) of *Neisseria gonorrhoeae* (gonococc?), wherein the conserved portion of the LPS comprises GlcNAc-Hep2-phosphoethanolamine (PEA)-KDO2-Lipid A, wherein the conjugate elicits a cross protective immune response against heterologous strains of *Neisseria gonorrhoeae*.

Claim 20. The antigenic conjugate of claim 19, wherein the LPS is de-o-acylated.

Claim 21. The antigenic conjugate of claim 19, wherein the carrier protein is selected from the group consisting of tetanus toxin, tetanus toxoid, Group A streptococcal toxins, pneumolysin of *Streptococcus pneumoniae*, filamentous haemagglutinin (FHA) of *Bordetella pertussis*, FHA fragments; pili or pilins of *Neisseria gonorrhoeae*, pili or pilins of *Neisseria meningitidis*, outer membrane proteins of *Neisseria meningitidis*, outer membrane proteins of *Neisseria gonorrhoeae*; C5A peptidase of *Streptococcus* and surface protein of *Moraxella catarrhalis*.

Claim 22. The antigenic conjugate of claim 19, wherein the carrier protein is linked to the conserved portion of the LPS with a compound selected from the group consisting of sulfo-LC-SPDP; LC-SPDP; SATA; SATP; SMCC; MBS; ISLABI; SMPB; BANSI; ADH; EDAC; and DTSSP.

Thanks.

S. DEVI, Ph.D.  
AU 1645  
Rems - 3C18

### STAFF USE ONLY

Date completed: 06-04-04  
Searcher: Beverly C 2528  
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